

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. Cancelled

Claim 2 (Previously Presented): An asymmetric satellite based terminal device configured to receive Internet data from a satellite using a standard TCP/IP stack, the terminal device comprising:

 a personal computer comprising:

 a modem in communication with an Internet Service Provider (ISP);

 an expansion card based satellite receiver in communication with a Satellite Network Operation Center (NOC), the NOC having a range of satellite IP addresses assigned thereto; and

 an operating system, the operating system including the standard TCP/IP stack;

 a first driver configured to access the expansion card based satellite receiver; and

 a second driver configured to access the modem;

 wherein the first driver is further configured to route data received from the satellite receiver card to the standard TCP/IP stack, the second driver is further configured to route request data from the standard TCP/IP stack to the modem, and the modem is configured to send the request data to the ISP, the request data as sent from the modem having a satellite source IP address from the range of satellite IP addresses assigned to the NOC, the satellite source IP address not being encapsulated within another source IP address, whereby asymmetric satellite communications is enabled.

Claim 3 (Currently Amended): An asymmetric satellite system comprising an asymmetric satellite based terminal device configured to receive Internet data from a satellite using a standard TCP/IP stack, a satellite network operation center (NOC) located at a distance from the

asymmetric satellite based terminal device and having a range of satellite IP addresses assigned thereto, and an Internet having a plurality of remote hosts, wherein the terminal device is configured to send web page request data to the remote hosts with a ~~return source~~ address of the network operations center, the ~~return source~~ address comprising a satellite IP address from the range of IP addresses assigned to the NOC, the satellite source IP address not being encapsulated within another source IP address.

Claim 4 (Original): The asymmetric satellite system of claim 3 wherein the network operation center is configured to encapsulate data output to the asymmetric satellite based terminal device from the network operation center in MPEG II packets.

Claim 5 (Previously Presented): The asymmetric satellite system of claim 4 wherein the data includes WEB pages.

Claim 6. Cancelled

Claim 7 (Currently Amended): An asymmetric satellite system comprising a satellite network operations center having a range of satellite IP addresses assigned thereto, an Internet having a plurality of hosts, and a terminal device located at a distance from the network operations center and configured to utilize an IP address belonging to the network operations center such that access requests across the Internet are returned to the network operations center, wherein the terminal device includes a personal computer having a modem, an expansion card based satellite receiver, and an operating system, the operating system including the standard TCP/IP stack, and an application program for assigning the IP address as a ~~return source~~ address of the terminal device, wherein the terminal device is configured to issue requests for web pages with a ~~return source~~ address of the network operations center, the ~~return source~~ address comprising a satellite IP address from the range of IP addresses assigned to the network operations center, the satellite source IP address not being encapsulated within another source IP address.

Claim 8. Cancelled.

Claim 9 (Currently Amended): An asymmetric satellite based terminal device configured to utilize an IP address belonging to a satellite network operations center (NOC), the NOC having a range of satellite IP addresses assigned thereto, the asymmetric satellite based terminal device including a personal computer having a modem, an expansion card based satellite receiver, and an operating system, the operating system including the standard TCP/IP stack, and an application program for assigning the IP address as a ~~return source~~ address of the asymmetric satellite based terminal device, wherein the asymmetric satellite based terminal device is configured to issue requests for web pages with a ~~return source~~ address of the network operations center, the ~~return source~~ address comprising a satellite IP address from the range of IP addresses assigned to the NOC, the satellite source IP address not being encapsulated within another source IP address.

Claims 10-25. Cancelled

Claim 26 (Previously Presented): The asymmetric satellite based terminal device of claim 2, wherein the terminal device is dynamically assigned an IP address from the range of IP addresses assigned to the NOC.

Claim 27 (Previously Presented): The asymmetric satellite based terminal device of claim 2, wherein the terminal device is statically assigned an IP address from the range of IP addresses assigned to the NOC.

Claim 28 (Previously Presented): The asymmetric satellite based terminal device of claim 27, wherein the IP address is associated with a subscriber of satellite service provided via the NOC.

Claim 29 (Previously Presented): The asymmetric satellite based terminal device of claim 28, wherein the terminal device is assigned an IP address from the range of IP addresses assigned to the NOC based on a token.

Claim 30 (Previously Presented): The asymmetric satellite based terminal device of claim 29, wherein the token is in communication with the terminal device and is selected from the group consisting of an access card, a Smartcard, and a data key.

Claim 31 (Previously Presented): The asymmetric satellite based terminal device of claim 29, wherein the token is entered into the terminal device by a user and is selected from the group consisting of an id value, a password, an id value and a password, an encrypted ID, and an encrypted ID and a password.

Claim 32 (Previously Presented): The asymmetric satellite system of claim 3, further comprising an Internet Service Provider (ISP) connected between the terminal device and the Internet, wherein the ISP is configured to assign to the terminal device an IP address associated with the network operations center.

Claim 33 (Previously Presented): The asymmetric satellite system of claim 32, wherein the ISP has a plurality of available IP addresses assigned to the network operations center and is configured to dynamically assign an available IP address of the plurality of available IP addresses to the terminal device.

Claim 34 (Previously Presented): The asymmetric satellite system of claim 32, wherein the ISP is configured to statically assign the IP address to the terminal device based on the identity of a user of the terminal device.

Claim 35 (Previously Presented): The asymmetric satellite system of claim 32, wherein the ISP is configured to assign the IP address based on a token.

Claim 36 (Previously Presented): The asymmetric satellite based terminal device of claim 35, wherein the token is in communication with the terminal device and is selected from the group consisting of an access card, a Smartcard, and a data key.

Claim 37 (Previously Presented): The asymmetric satellite based terminal device of claim 35, wherein the token is entered into the terminal device by a user and is selected from the group consisting of an id value, a password, an id value and a password, an encrypted ID, and an encrypted ID and password.

Claim 38 (Currently Amended): The asymmetric satellite system of claim 3, wherein a first host of the remote hosts is connected to the terminal device via a first hop on a terrestrial link, a second host of the remote hosts is connected to the terminal device via a second hop on the terrestrial link, and ~~the~~ an ISP is configured to return data from the first host to the terminal device via the terrestrial link and to return data from the second host to the terminal device via a satellite link.

Claim 39 (Currently Amended): An asymmetric satellite based terminal device comprising:
a modem in communication with an Internet Host via a terrestrial link;
a satellite card in communication with an Internet Host via a satellite link;
a storage device having computer-readable instructions stored thereon for performing steps comprising:

creating an data packet having a source address assigned to a centralized uplink center of a satellite service, the source address not being ~~that is not~~ encapsulated within another source address; and

sending the data packet from the modem to the Internet Host via the terrestrial link.

Claim 40 (Previously Presented): The asymmetric satellite based terminal device of claim 39, wherein the storage device further includes instructions for performing the step of receiving data at the satellite card from the Internet Host via the satellite link in response to the data packet being sent from the modem.

Claim 41 (Previously Presented): The asymmetric satellite based terminal device of claim 40, wherein the Internet Host is connected to the modem via a first hop on the terrestrial link, and the storage device further includes instructions for performing the step of receiving data at the modem from the Internet Host via the terrestrial link in response to the data packet being sent from the modem.

Claim 42 (Currently Amended): A method for providing asymmetric satellite based service to a terminal device, the method comprising:

creating a data packet having a source address assigned to a centralized uplink center of a satellite network, the source address not being ~~that is not~~ encapsulated within another source address; and

sending the data packet from the terminal device to an Internet Host via a terrestrial link.

Claim 43 (Previously Presented): The method of claim 42, further comprising, in response to the step of sending, receiving response data at the terminal device from the Internet Host via a satellite link.

Claim 44 (Previously Presented): The method of claim 42, wherein the Internet Host is connected to the terminal device via a first hop on the terrestrial link, the method further comprising receiving response data at the terminal device from the Internet Host via the terrestrial link in response to the step of sending.

Claim 45 (Previously Presented): The method of claim 42, further comprising assigning an IP address assigned to an uplink center of a satellite network to the terminal device, wherein, for the step of creating, the source address matches the IP address assigned to the uplink center.

Claim 46: Cancelled

Claim 47: Cancelled

Claim 48 (Currently Amended): A computer-readable medium having computer-readable instructions stored thereon for performing steps comprising:

creating a data packet having a source address assigned to a centralized uplink center of a satellite service, the source address not being ~~that is not~~ encapsulated within another source address; and

sending the data packet from the modem of an asymmetric satellite based terminal device to an Internet Host via a terrestrial link.

Claim 49 (Previously Presented): The computer-readable medium of claim 48 including further computer-readable instructions for performing the step of receiving data at the terminal device from the Internet Host via a satellite link in response to the data packet being sent from the modem.

Claim 50 (Previously Presented): The computer-readable medium of claim 48 including further computer-readable instructions for performing the step of assigning an IP address assigned to an uplink center of a satellite network to the terminal device, wherein, for the step of creating, the source address matches the IP address assigned to the uplink center.

Claim 51: Cancelled

Claim 52: Cancelled

Claim 53 (New): An asymmetric satellite based terminal device configured to receive Internet data from a satellite using a standard TCP/IP stack, the terminal device comprising:
a personal computer comprising:

a modem in communication with an Internet Service Provider (ISP);

an expansion card based satellite receiver in communication with a Network Operation Center (NOC), the NOC having a range of IP addresses assigned thereto, the receiver having an Internet broadcast IP address from the range of IP addresses assigned to the NOC; and

an operating system, the operating system including the standard TCP/IP stack;

a first driver configured to access the expansion card based satellite receiver; and

a second driver configured to access the modem;

wherein the first driver is further configured to route data received from the satellite receiver card to the standard TCP/IP stack, the second driver is further configured to route request data from the standard TCP/IP stack to the modem, and the modem is configured to send the request data to the ISP, the request data as sent from the modem having, as an unencapsulated source address, the Internet broadcast IP address of the receiver, whereby asymmetric satellite communications is enabled.

Claim 54 (New): The asymmetric satellite terminal device of claim 53, wherein the terminal device is configured to send web page request data to remote hosts with the return address as the Internet broadcast IP address.

Claim 54 (New): The asymmetric satellite system of claim 53 wherein the network operation center is configured to encapsulate data output to the asymmetric satellite based terminal device from the network operations center in MPEG II packets.

Claim 55 (New): The asymmetric satellite system of claim 54 wherein the data includes WEB pages.

Claim 56 (New): The asymmetric satellite system of claim 53 wherein the terminal device includes an application program for assigning the source Internet broadcast IP address from the range of IP addresses as a return address of the terminal device, wherein the terminal device is configured to issue requests for web pages with a return address of the network operations center.

Claim 57 (New): The asymmetric satellite based terminal device of claim 53, wherein the terminal device is dynamically assigned the Internet broadcast IP address from the range of IP addresses assigned to the NOC.

Claim 58 (New): The asymmetric satellite based terminal device of claim 53, wherein the terminal device is statically assigned the Internet broadcast IP address from the range of IP addresses assigned to the NOC.

Claim 59 (New): The asymmetric satellite based terminal device of claim 58, wherein the Internet broadcast IP address is associated with a subscriber of satellite service provided via the NOC.

Claim 60 (New): The asymmetric satellite based terminal device of claim 59, wherein the terminal device is assigned the Internet broadcast IP address from the range of IP addresses assigned to the NOC based on a token.

Claim 61 (New): The asymmetric satellite based terminal device of claim 60, wherein the token is in communication with the terminal device and is selected from the group consisting of an access card, a Smartcard, and a data key.

Claim 62 (New): The asymmetric satellite based terminal device of claim 61, wherein the token is entered into the terminal device by a user and is selected from the group consisting of an id value, a password, an id value and a password, an encrypted ID, and an encrypted ID and a password.

Claim 63 (New): The asymmetric satellite system of claim 54, further comprising an Internet Service Provider (ISP) connected between the terminal device and the Internet, wherein the ISP is configured to assign to the terminal device the Internet broadcast IP address associated with the network operations center.

Claim 64 (New): The asymmetric satellite system of claim 63, wherein the ISP has a plurality of available Internet broadcast IP addresses assigned to the network operations center and is configured to dynamically assign an available Internet broadcast IP address of the plurality of available Internet broadcast IP addresses to the terminal device.

Claim 65 (New): The asymmetric satellite system of claim 63, wherein the ISP is configured to statically assign the Internet broadcast IP address to the terminal device based on the identity of a user of the terminal device.

Claim 66 (New): The asymmetric satellite system of claim 63, wherein the ISP is configured to assign the Internet broadcast IP address based on a token.

Claim 67 (New): The asymmetric satellite based terminal device of claim 66, wherein the token is in communication with the terminal device and is selected from the group consisting of an access card, a Smartcard, and a data key.

Claim 68 (New): The asymmetric satellite based terminal device of claim 67, wherein the token is entered into the terminal device by a user and is selected from the group consisting of an

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id value, a password, an id value and a password, an encrypted ID, and an encrypted ID and password.

Claim 69 (New): The asymmetric satellite system of claim 54, wherein a first host of the remote hosts is connected to the terminal device via a first hop on a terrestrial link, a second host of the remote hosts is connected to the terminal device via a second hop on the terrestrial link, and the ISP is configured to return data from the first host to the terminal device via the terrestrial link and to return data from the second host to the terminal device via a satellite link.